TROPIC® HEATER

by SAMMONS™ PRESTON

Operating Instructions

Stationary 4 Pack
Tropic Heater
Model 3537

Stationary 4 Pack
Tropic Heater, 220 Volt
Model 3537V

PLEASE

Read this entire booklet before operating your new Tropic Heater®

If you have any questions, please call:

Sammons Preston Inc.
P.O. Box 5071
Bolingbrook, IL 60440

Phone: 1-800-323-5547
Fax: 1-800-547-4333

CONTENTS

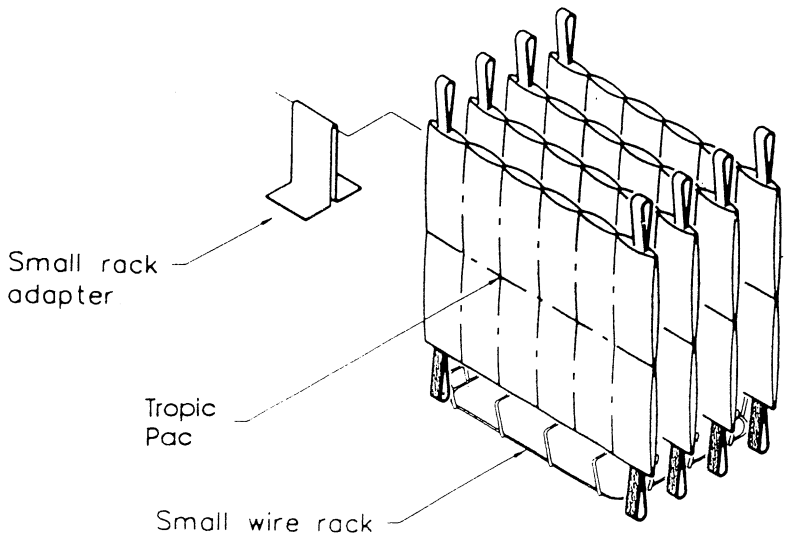
Table of Contents 3
General Warnings 4
Description 4
What are the parts? 5
Setup Instructions 6-9
What's included? 6
Unpacking my Tropic Heater® 6
Where do I put my Tropic Heater®? 6
Pre-Soaking Tropic Pacs 6-7
Filling my unit. 7-8
Emptying my unit 9
Before the first use 9
Using your Tropic Heater® 10-12
How do I use the Tropic Pacs? 10
How do I change the temperature? 12
How do I use different size Tropic Pacs? 12
Cleaning 13-15
What do I use? 13
Routine Cleaning. 13-14
Cleaning color coated surfaces 14-15
For scratches, stains. 15
Maintenance 16
Storage. 16
Troubleshooting 17
Technical information 18-21
Electrical Information 18
Replacement Parts (3537) 18
Exploded view (3537) 19
Replacement Parts (3537V) 20
Exploded view (3537V). 21
Accessories 22-23

⚠ WARNING ⚠

- DO NOT reach into water to get the Tropic Pacs. Skin burns may occur. Use the Hot Pac tabs or tongs.
- DO NOT use unit near explosive gases. Fires may occur.
- DO NOT place Tropic Pacs on bare skin. Skin burns may occur. Always place the Tropic Pac in a terry cover.
- Remove ALL packaging before using.
- Fill with water before you plug in the unit. If the unit is empty, the heating element will burn out.
- Plug into a Ground Fault Circuit Interrupter (GFCI), a receptacle to protect you if water and electricity mix. Properly ground the Tropic Heater®. Failure may increase the risk of electric shock.

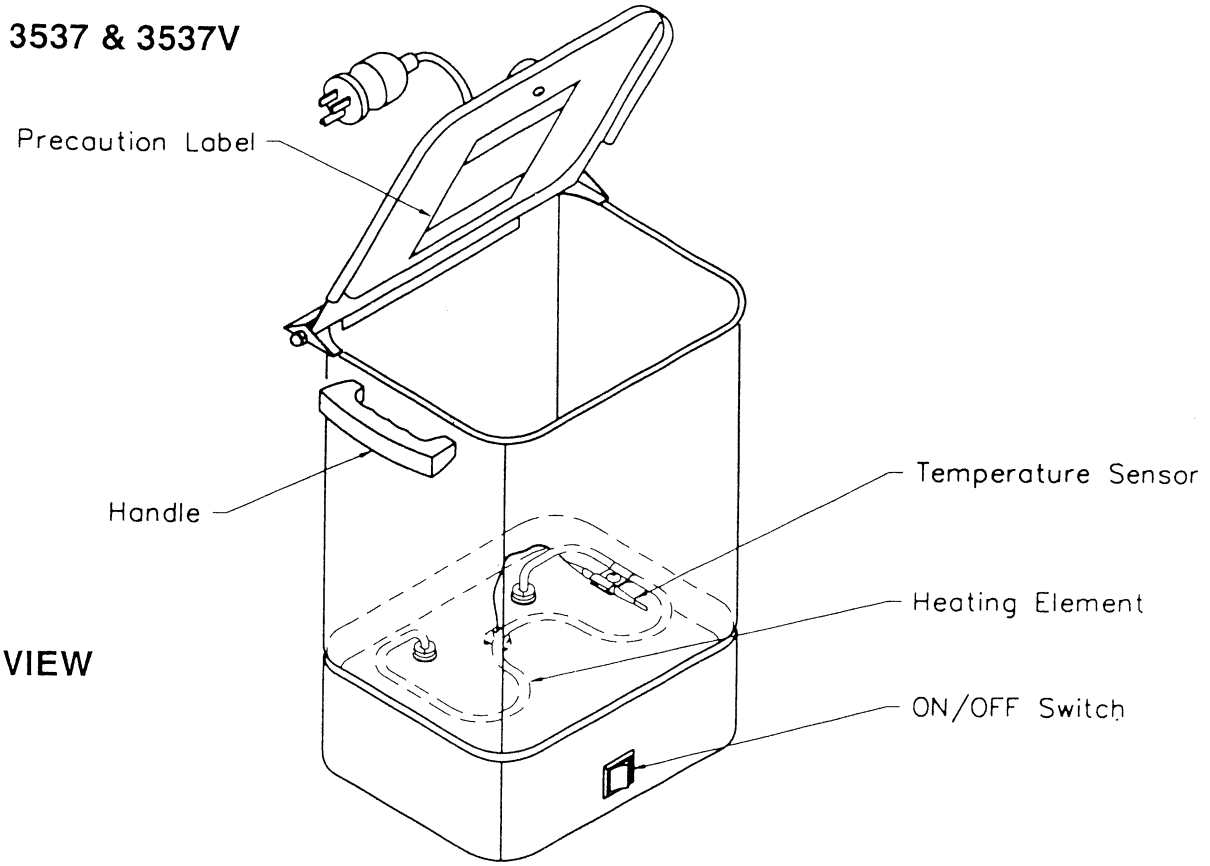
DESCRIPTION

Your Tropic Heater® is a simple and trouble-free unit to operate. The tank body, bottom and lid are all made from type 304 stainless steel. The controls are an ON/OFF switch on the front of the unit and a thermostat on the rear to control the water temperature. It is preset to a normal operating temperature. Side handles and a knob on the lid minimize contact with the hot surface. The unit has Tropic Pacs and a stainless steel small rack adapter that fits onto a stainless steel wire rack. Inside the unit is a heating element and a temperature sensor.

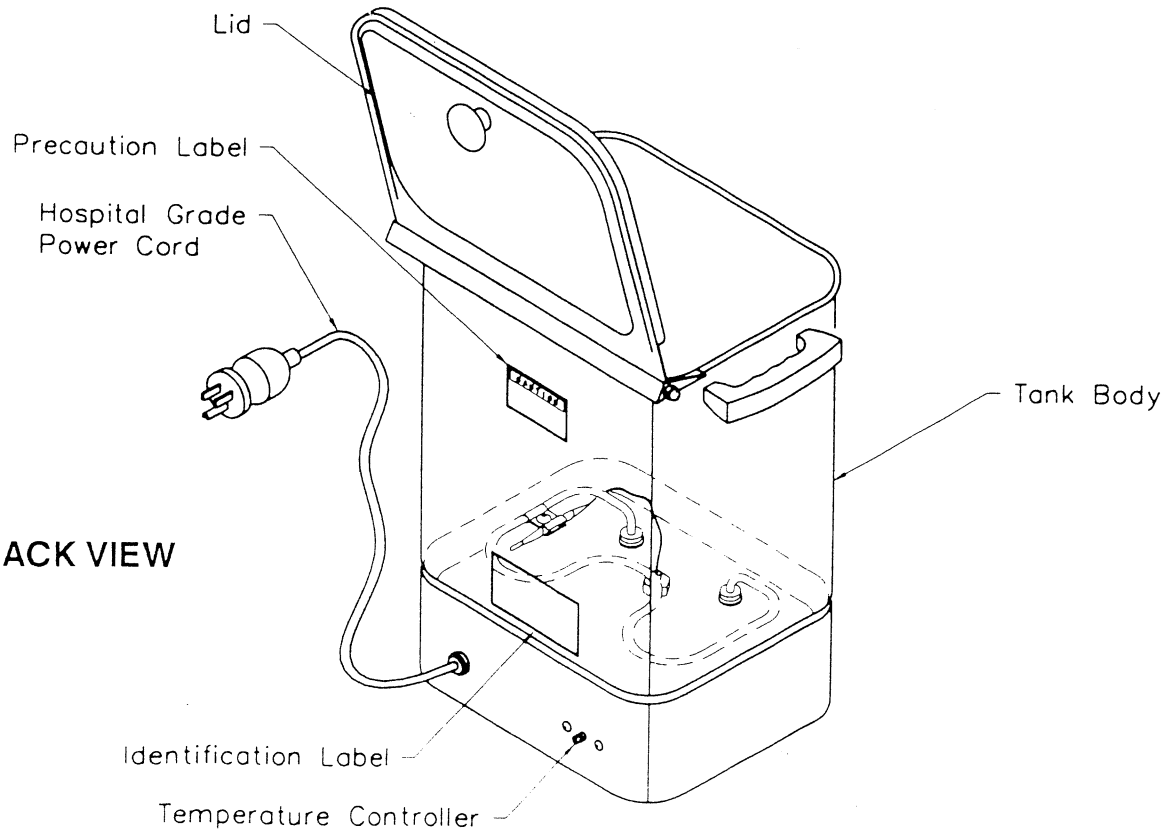


Tropic Heater®

Models 3537 & 3537V



FRONT VIEW



BACK VIEW

SETTING UP

1. Your new Tropic Heater® includes the following:

1 Tropic Heater® Model 3537 or 3537V

4 Tropic Pacs (10" x 12") or alternates

1 Wire Rack – Small (stainless steel)

1 Rack Adapter – Small (stainless steel)

1 Operating Instructions Booklet

If you are missing anything, please call the phone number listed on the inside front cover.

2. Unpacking your Tropic Heater®

Remove all the shipping material. Remove Tropic Pacs and wire rack from inside the tank. Remove all packaging from inside the tank, especially from under the heating element inside the tank. Clean the unit thoroughly before using.

3. Device Placement

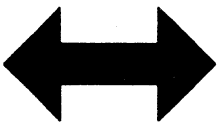
Place the Tropic Heater® at a convenient level, such as on a table or a scratch resistant counter-top. Before moving the Tropic Heater®, unplug and cool the unit. Only move the unit to empty or fill it. Always use the handles. The unit may be hot to the touch.

4. Pre-Soaking Tropic Pacs

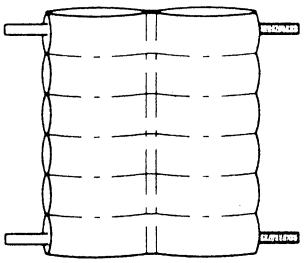
Before the first use, you must condition each Tropic Pac. Soaking in water lets the Pac swell to its full size. This is necessary only BEFORE the first use. You can then reuse the Pac after about 15 minutes of reheating.

a. Take the Tropic Pac by the corner loops so the sections are horizontal.

b. Gently shake the Pac back and forth to evenly distribute the filler material.



Shake to distribute the dry material



c. Place the Tropic Pac in a large metal (use stainless steel or enamel-ware, DO NOT use aluminum) or plastic container. You MAY USE the Tropic Heater®:

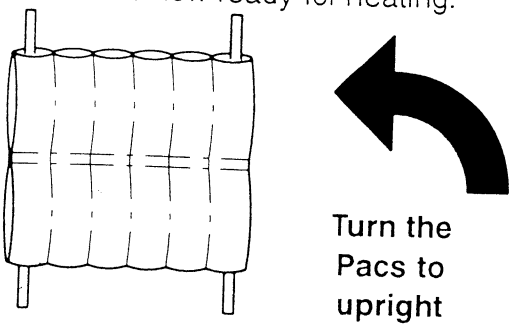
*Place the Tropic Pac in the unit with sections horizontal.

*Change the water after soaking; it will become cloudy.

d. Fill the container with enough tap water to completely cover the Tropic Pacs.

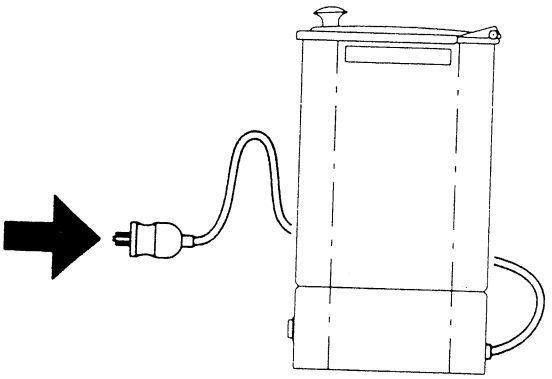
e. Soak the Pacs for 1 hour minimum; 2 hours or more are recommended. Cloudy water after soaking is normal.

f. Return the Pacs to upright. The Pacs are now ready for heating.

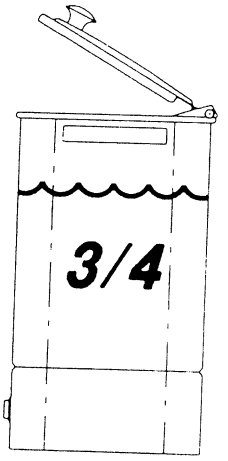


FILLING

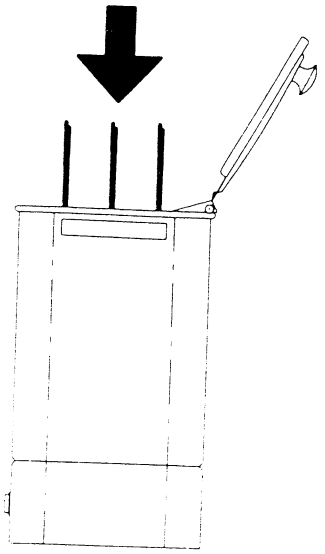
1 Make sure the unit is unplugged and all packaging has been removed.



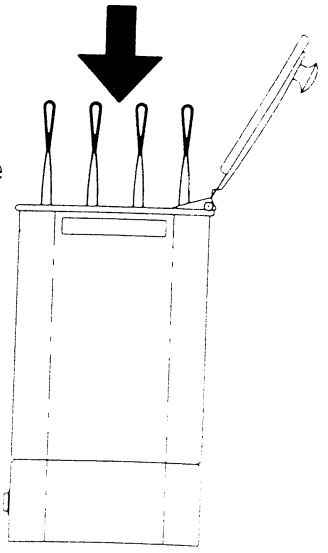
2 Fill unit about 3/4 full with tap water.



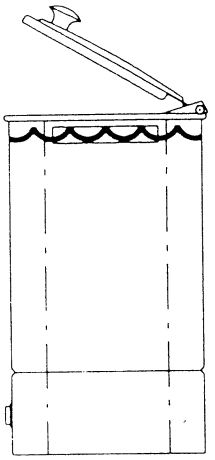
3 Place the wire rack inside the unit. Be careful of the heating element.



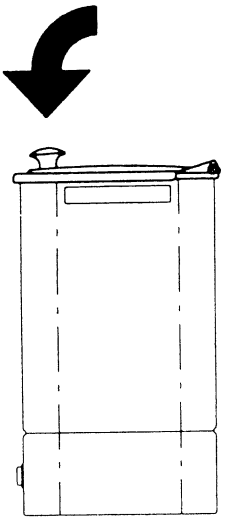
4 Put the PRE-SOAKED Tropic Pacs on the wire rack.



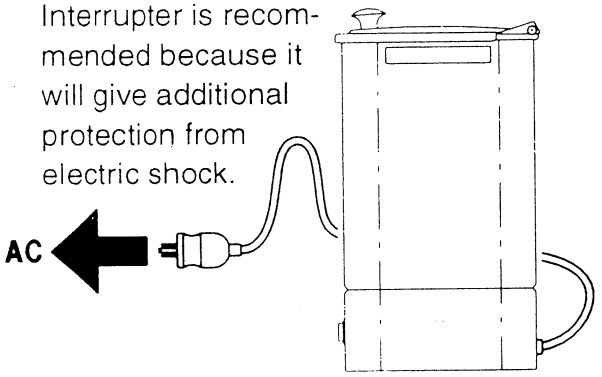
5 Add more water, if necessary, to cover the Tropic Pacs. Uncovered Pacs may be damaged during heating.



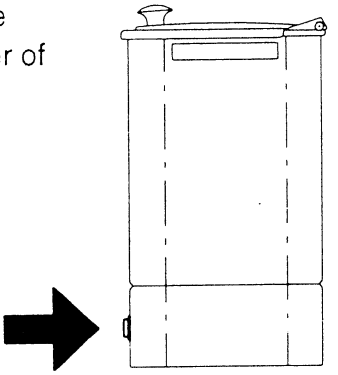
6 Close the lid.



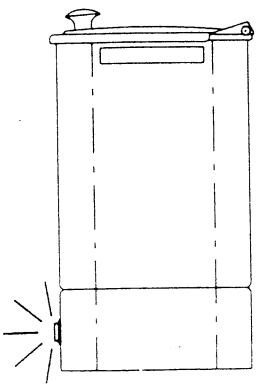
7 Plug the power cord into an AC outlet. A Ground Fault Circuit Interrupter is recommended because it will give additional protection from electric shock.



8 Facing the front of the unit, find the red power switch in the lower, center of the unit.

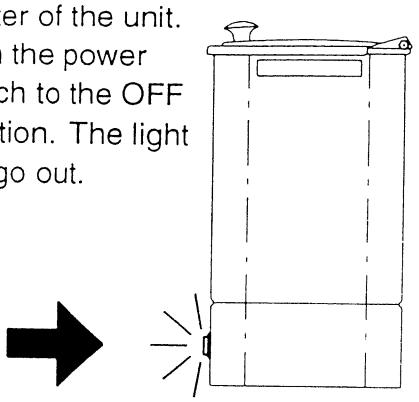


9 Turn the power switch to the ON position. The red light will go on.

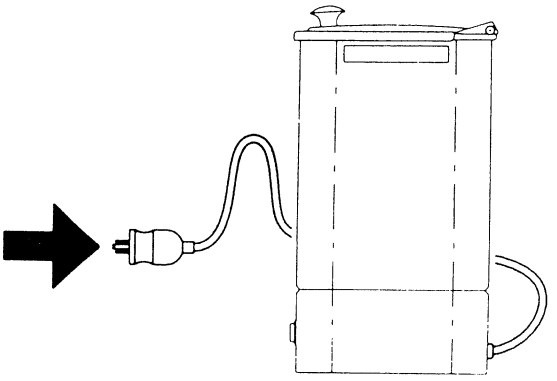


EMPTYING

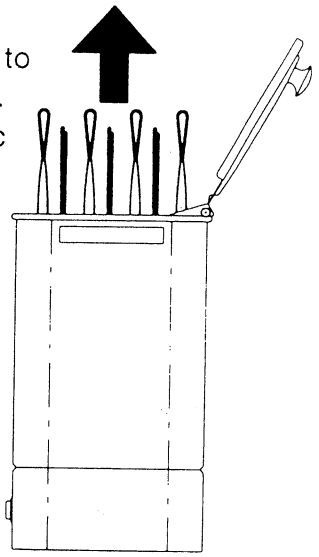
1 Facing the front of the unit, find the red power switch in the lower, center of the unit. Turn the power switch to the OFF position. The light will go out.



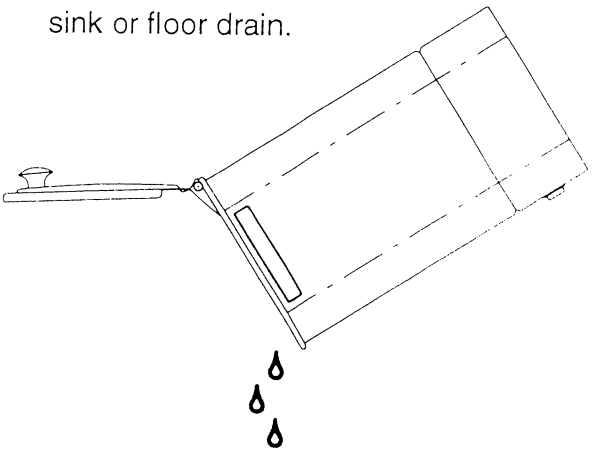
2 Unplug the unit.



3 Let the water cool to room temperature. Remove the Tropic Pacs and the wire rack.



4 Pick up the unit by the handles and pour out into a sink or floor drain.



CHECKING OUT my Tropic Heater®

Before the FIRST use, check the following:

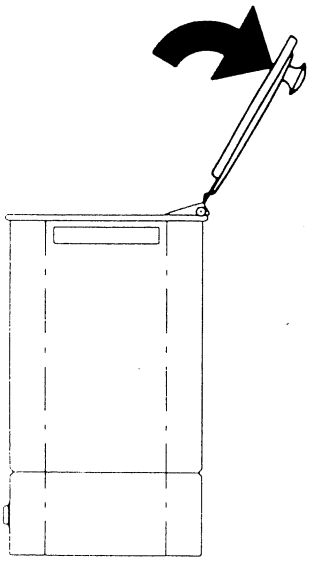
1. The Tropic Heater should be level.
2. The Tropic Heater should be plugged directly into a properly grounded GFCI receptacle. DO NOT use an extension cord. Undersized extension cords can overheat.
3. The Tropic Heater should be in good condition.

Your new Tropic Heater is now ready for use. If you have any questions about SETTING UP or CHECKING OUT your unit, please call the phone number listed on the inside front cover.

USING the Tropic Pacs

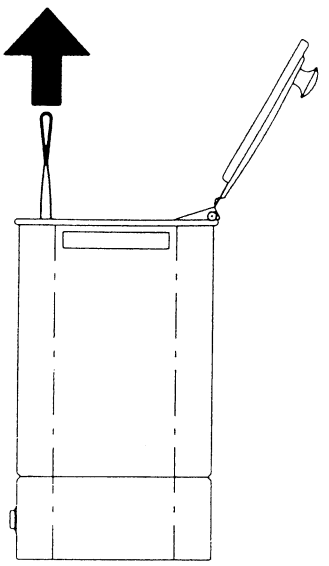
1-For each use:

1 Open the lid.

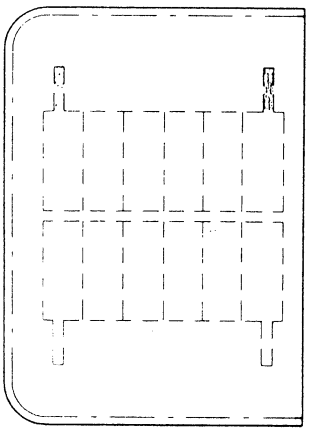


2 Using tongs, carefully remove the Tropic Pac.

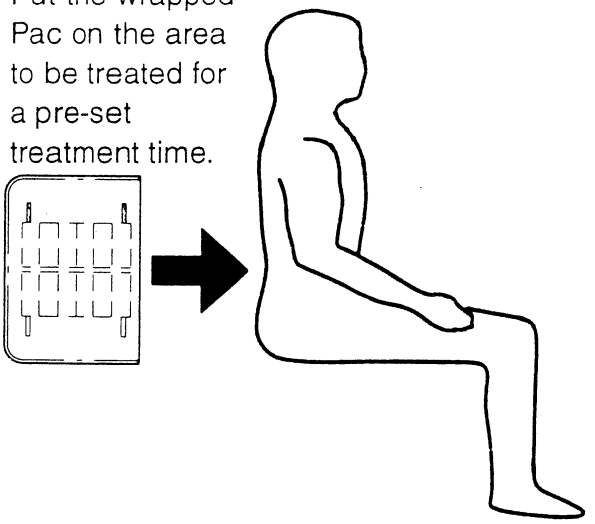
CAUTION: The Tropic Pac can cause skin burns.



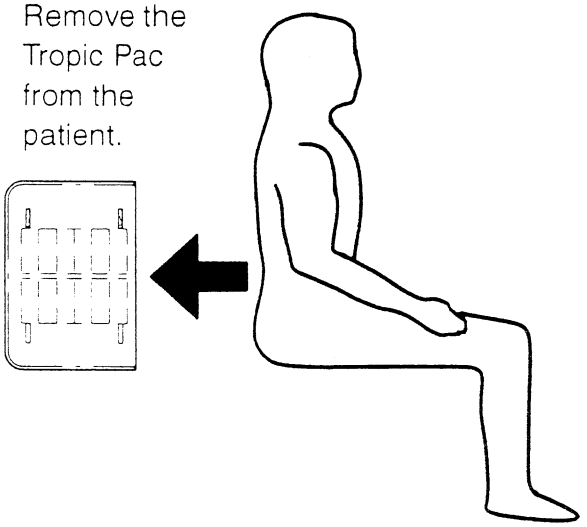
3 Wrap the Pac in a Tropic Pac Cover or 5 to 6 layers of terry toweling.



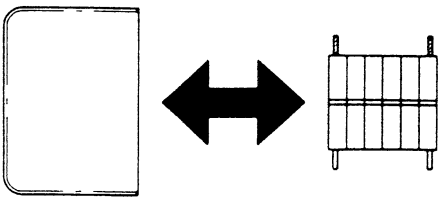
4 Put the wrapped Pac on the area to be treated for a pre-set treatment time.



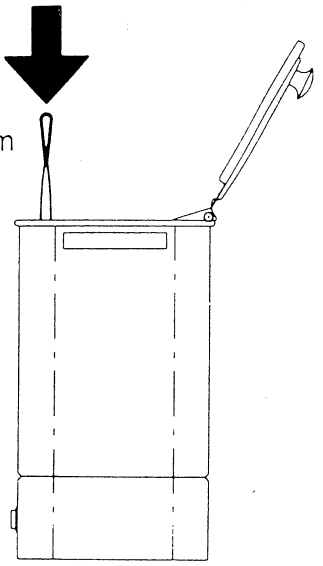
5 Remove the Tropic Pac from the patient.



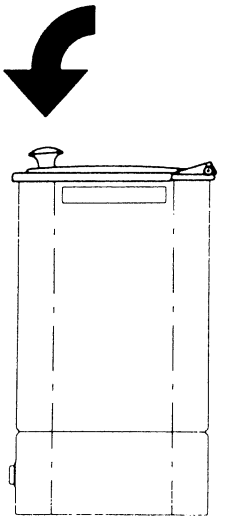
6 Remove the Tropic Pac Cover or toweling. Hang to dry or launder.



7 Return the Pac to the Tropic Heater®. Work your way from first to last.



8 Close the lid. The Tropic Pac will be reheated within about 15 minutes and ready for use.

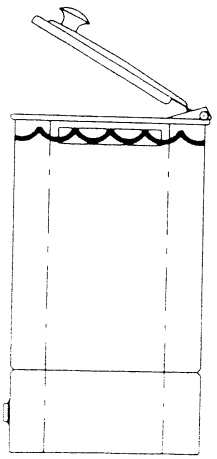


⚠ CAUTION ⚠

- DO NOT use the Tropic Pac on sensitive skin or on areas of poor circulation.
- DO NOT stack Tropic Pacs on top of each other for more heat.
- DO NOT use wet or moist toweling to wrap the Tropic Pac.
- DO NOT apply the Tropic Pac over cuts, lacerations, or abrasions.
- DO NOT use the Tropic Pac in combination with balms, linament or ointments.
- DO NOT use additives, disinfectants or other chemicals in the water.
- Have the patient tell you if the Tropic Pac is too hot.
- Use 5 or 6 layers of ordinary heavy toweling or Tropic Pac Covers to wrap the Tropic Pac before applying to the patient.
- Use extra care and judgement when using the Tropic Pac with infants and the elderly.
- Use extra care and judgement when using the Tropic Pac on thin skin or "bony" areas.
- Apply the Tropic Pac to the patient; DO NOT have the patient lie on the Tropic Pac.
- Cover the Tropic Pac with extra layers of towel on the top to slow heat loss.
- During treatment, check the condition of the patient and the treated area often.
- When handling the Tropic Pac, use the corner loops to avoid skin burns.

2-Daily Use:

1 Add more water, if necessary, to cover the Tropic Pacs. Uncovered Pacs may be damaged during heating.



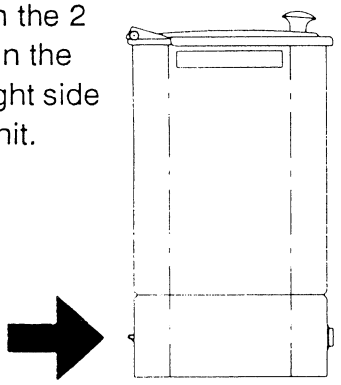
3-Periodic Use:

Your water temperature is factory preset at a normal operating temperature, about 165° F. The thermostat is very sensitive; even a small adjustment can raise or lower the temperature several degrees. To adjust the temperature, you need the following:

-Small, flat blade screwdriver.

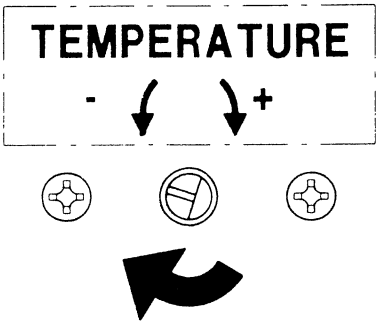
-Thermometer capable of 180° F.

1 Facing the back of the unit, find metal temperature knob between the 2 screws in the lower right side of the unit.



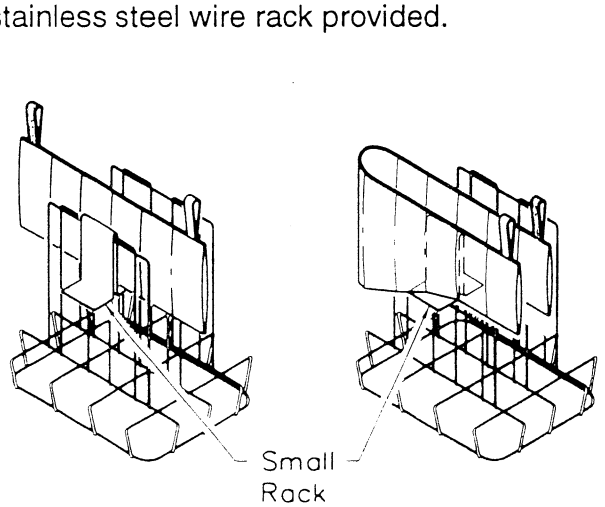
2 Using the screwdriver, turn the stem clockwise to increase the temperature. Allow the temperature to stabilize, and measure the water temperature with the thermometer.

CAUTION: Sensitive thermostat; a small adjustment changes several degrees.



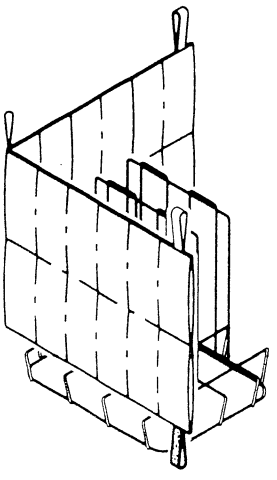
USING the wire rack

Your Tropic Heater® uses many different sizes of Tropic Pacs. For Half, Cervical or Myofacial sizes, a small rack adapter is provided. For Standard and Knee/Shoulder sizes, use only the stainless steel wire rack provided.

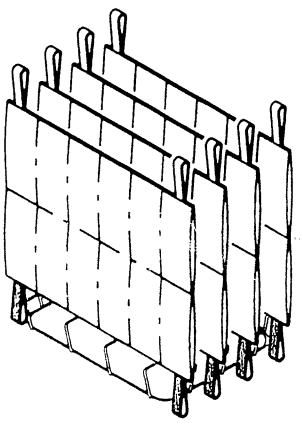


Half

Cervical
Myofacial



Knee/Shoulder
10" x 18"
10" x 24"



Standard

CLEANING

1-You will need:

- Sponge, cloth or non-abrasive cleaning pad.
- Stainless steel cleaner, such as Sheila Shine® or 3M Stainless Steel Cleaner & Polish.**
- Synthetic abrasive cleaning pad, such as Scotch-Brite®.**
- Soap, ammonia, detergent or mild disinfectant.
- Household wax (Color-coated units only).
- Mild acid such as white vinegar.**

**Use ONLY on stainless steel surfaces.

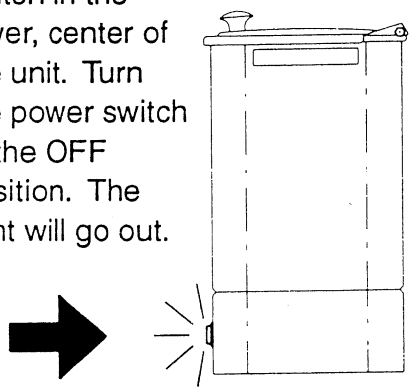
⚠ CAUTION ⚠

DO NOT use steel wool - it will rust and embed in stainless steel surface.

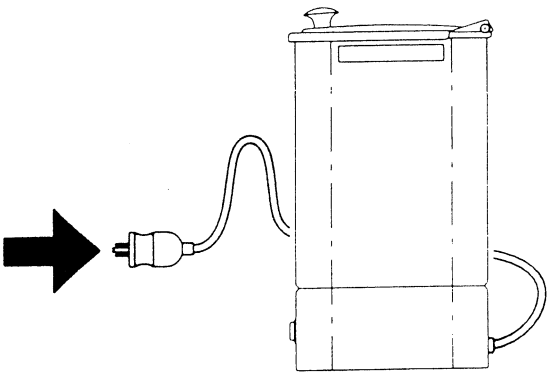
DO NOT use bleach, chlorinated solvents or other chemicals - they will leave a residue on your unit and will shorten the life of the Tropic Pacs.

2-Routine Cleaning (every 2 weeks or as needed).

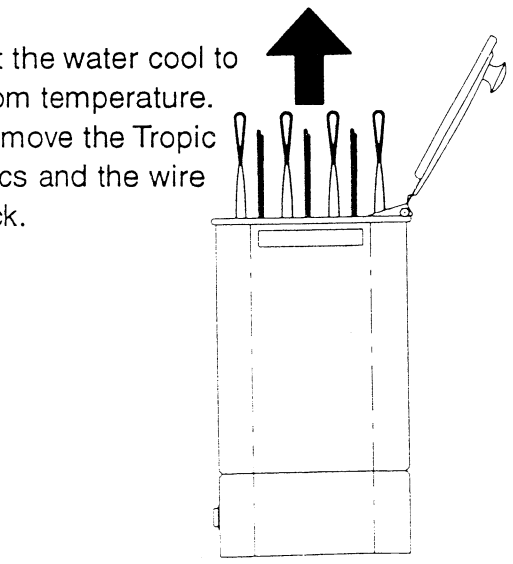
1 Facing the front of the unit, find the red power switch in the lower, center of the unit. Turn the power switch to the OFF position. The light will go out.



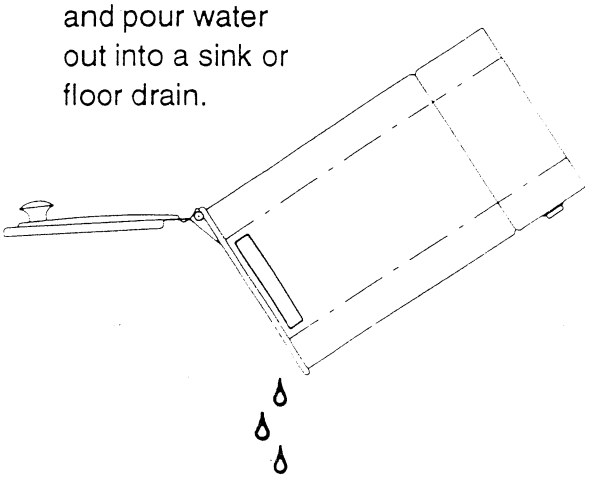
2 Unplug the unit.



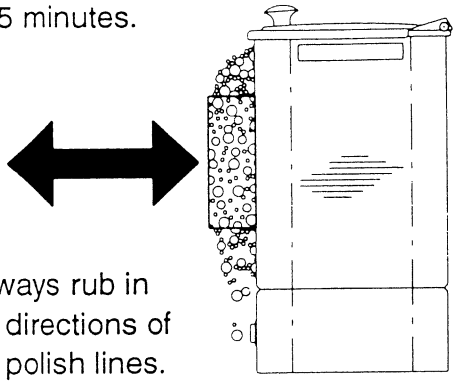
3 Let the water cool to room temperature. Remove the Tropic Pacs and the wire rack.



4 Pick up the unit by the handles and pour water out into a sink or floor drain.

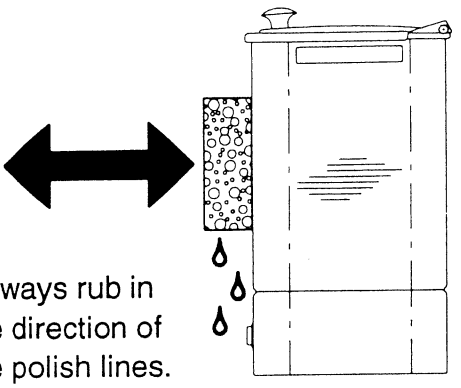


5 Wash inside and outside with a sponge, cloth or cleaning pad using a mild soap solution. For "hard water" spots and scale, scrub the area using a strong solution of vinegar and water. Let stand for 5 minutes.



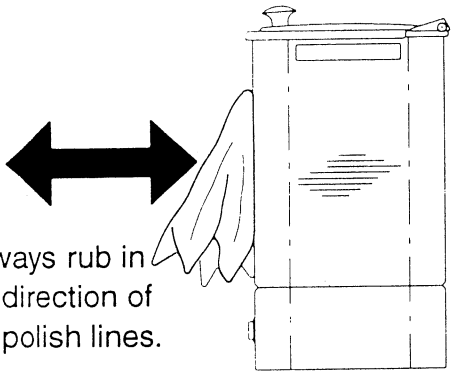
*Always rub in the directions of the polish lines.

6 Rinse thoroughly with clean tap water.



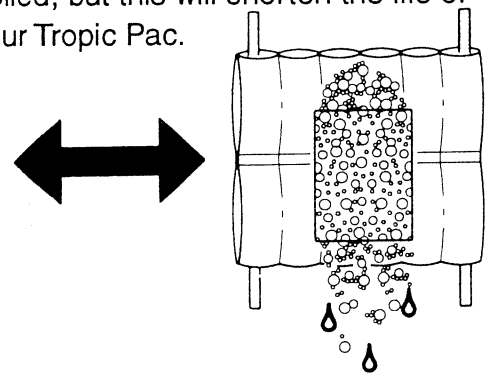
*Always rub in the direction of the polish lines.

7 Dry with a soft cloth to avoid water marks.



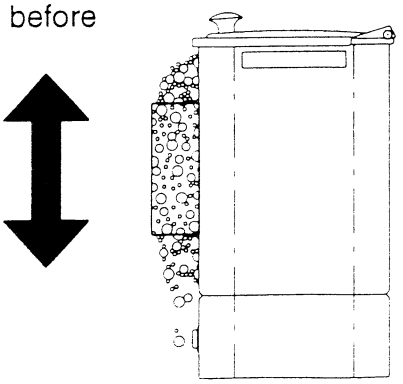
*Always rub in the direction of the polish lines.

8 Scrub your Tropic Pacs with warm soap and water. Pacs may also be boiled, but this will shorten the life of your Tropic Pac.

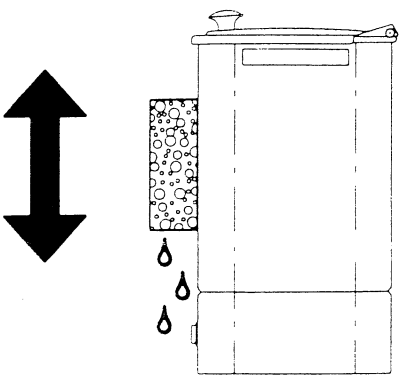


2-Special Cleaning (Color coated surfaces).

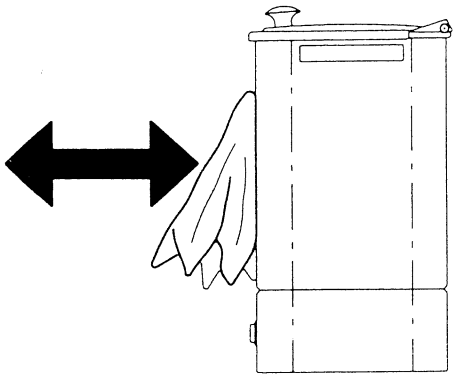
1 Follow steps 1-4 on page 13. Wash the outside with a sponge or cloth using a mild soap solution. Do not use abrasive compounds, cleanser or pads. Verify the resistance to chemicals and solvents before using.



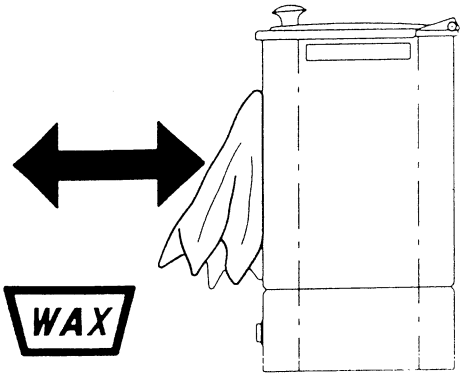
2 Rinse thoroughly with clean tap water.



3 Dry with a soft cloth to avoid water marks.

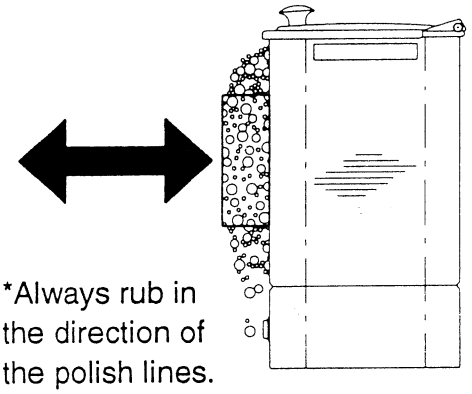


4 To maintain and restore gloss, use a household wax.



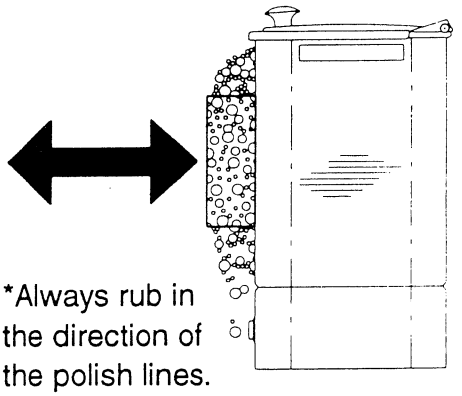
3-Special Cleaning-stains, spots and scratches (stainless steel surfaces only).

1 Follow steps 1-4 on page 13. Apply the stainless steel cleaner to a damp cloth, sponge, or synthetic cleaning pad. Follow manufacturer's instructions for using cleaner.



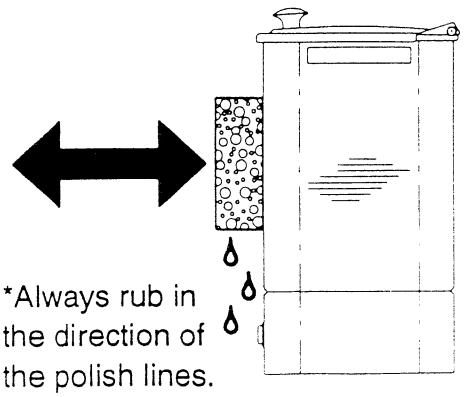
*Always rub in the direction of the polish lines.

2 Wash inside and outside with a sponge, cloth or cleaning pad using a mild soap solution.



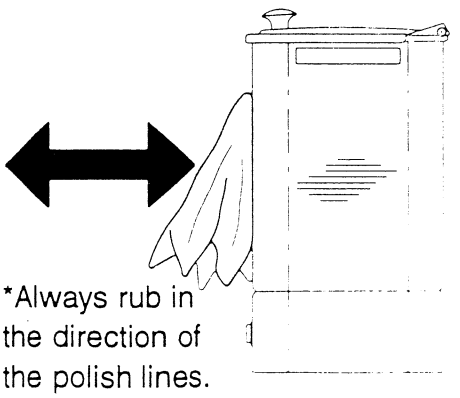
*Always rub in the direction of the polish lines.

3 Rinse thoroughly with clean tap water.



*Always rub in the direction of the polish lines.

4 Dry with a soft cloth to avoid water marks.



*Always rub in the direction of the polish lines.

MAINTENANCE

The Tropic Heater® design is nearly maintenance-free. If should, under most conditions, give many years of reliable service. Clean and replace the Tropic Pacs as described below.

1. Routine Maintenance (as needed)

* Follow steps 1-8 on page 13 and 14 for Routine Cleaning.
* Always keep the Tropic Pacs under water. Replace any water that evaporated.
* Destroy or discard any contaminated Tropic Pacs.

2. Monthly Maintenance

* Follow steps 1-4 on page 15 for cleaning stains, spots and scratches.
* Clean the wire rack and insert using the steps 5-7 on page 14.
* Keep the pH (a measure of acidity of the water) between 7.4 and 7.8 to reduce the scaling and residue build-up. Contact a swimming pool supply company for information and supplies.

3. Yearly Maintenance

* Replace worn out Tropic Pacs. When the Pacs begin to wear out, the non-toxic filler material oozes through the fabric and seams. The individual cells seem empty. These Pacs do not hold the heat. Throw away worn Tropic Pacs.
* Have a professional electrician thoroughly check the following:

a. Test for leakage current, dielectric strength, and receptacle polarity and ground. If you need the test details, call the phone number listed on the inside front cover.

b. Check the power cord and plug. They should be free of cuts, abrasion and other damage. Replace the power cord assembly if it is damaged. Use only factory authorized replacement parts.

c. Remove the cover and check all electrical components and connections. Replace any parts that are in questionable condition. Use only factory authorized replacement parts.

STORAGE

1. Storing the Tropic Heater

* Follow steps 1-7 on pages 13 and 14 for Routine Cleaning.
* Place the Tropic Heater upright in a dry area away from any chemicals.

2. Storing the Tropic Pacs

* Follow step 8 on page 14 for Routine Cleaning.
* Moist and cold:

a. Put the moist Tropic Pac in a plastic bag.

b. Seal the plastic bag.

c. Store the bag in the freezer (recommended) or refrigerator

* Dry:

a. Air dry the Tropic Pac completely in a well ventilated area. The filler will become hard and caked. This does not hurt the bags; more PRE-SOAKING time is then necessary.

b. Store in a dry area away from any chemicals.

TROUBLESHOOTING

Problem	Cause	Solution
Water doesn't get hot, even though unit is plugged in and switch is ON.	•Circuit breaker is off. •Thermostat is not working. •Heating element is burned out. •The ON/OFF switch is broken.	•Turn on the circuit breaker. •Replace the thermostat. •Replace the heating element. •Replace the switch.
Water is cloudy. (seeping).	•The Tropic Pacs are worn out •Too long between cleaning.	•Replace the Tropic Pacs. •Drain, clean and refill.
Tropic Pacs too hot.	•The thermostat is set too high. •The thermostat is broken.	•Adjust the thermostat. •Replace the thermostat.
Tropic Pacs too hot & then too cool.	•The thermostat is broken.	•Replace the thermostat.
Tropic Pacs too cool.	•The thermostat is set too low. •The thermostat is broken. •There is a power failure.	•Adjust the thermostat. •Replace the thermostat. •Check the circuit and turn on the breaker.
Rust in unit.	•Contact with ferrous metal.	•Remove the ferrous metal item from the unit – usually a staple, paper clip, safety pin, etc. Clean thoroughly.

Refer to the Technical Information section for replacement parts.

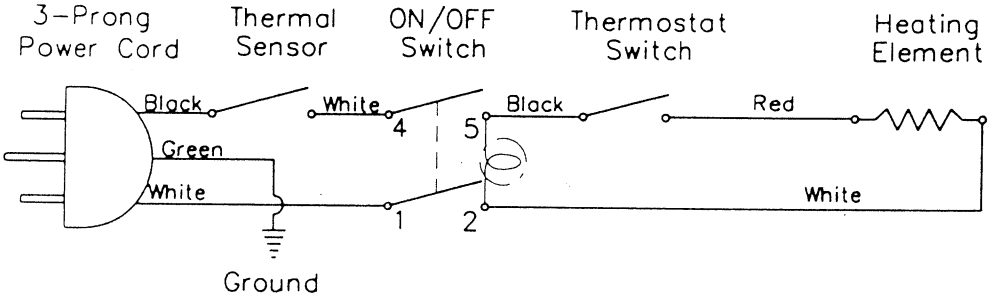
For more help call the number listed on the inside front cover.

TECHNICAL INFORMATION

Electrical Information

The Tropic Heater®, Model 3537 requires 120 Volts AC, 60 Hz and will draw 9 amps; the 3537V requires 220 Volts AC, 50/60 Hz and will draw 5 amps. The 8 foot power cord ends with a "Hospital Grade" plug, an Underwriters' Laboratories Inc. verification for abuse resistant wiring devices. The other electrical components include a 1000 watt resistive type heating element, a double pole, single throw (DPST) lighted ON/OFF switch, a hydraulic capillary type thermostat for temperature control, and a snap-action thermal overheating sensor.

Wiring Diagram

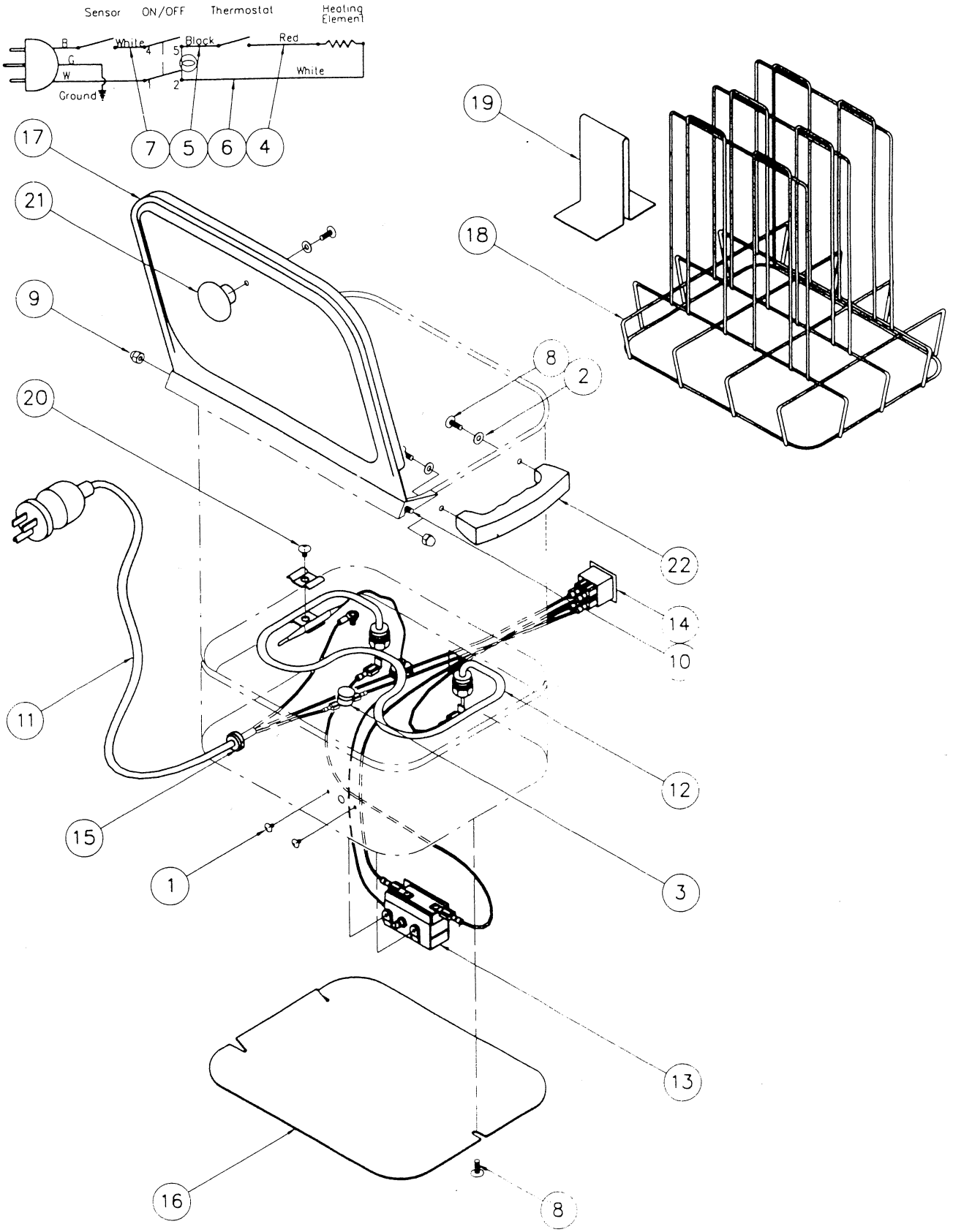


Replacement Parts - 3537 (120VAC 60Hz)

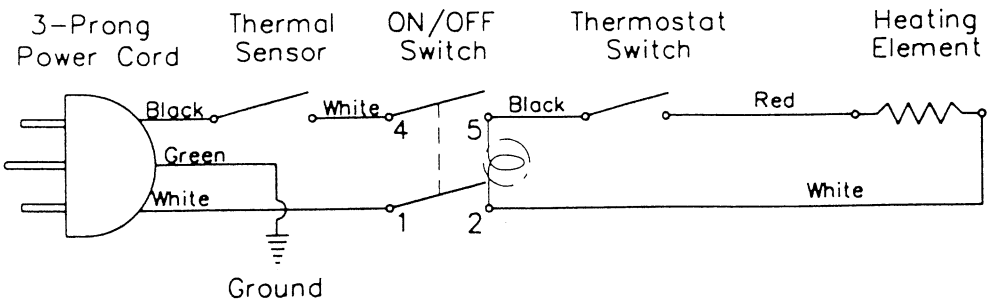
Item	Description
1	#6-32 x 3/16" phillips screw
2	Fiber washer
3	Thermal Overheating Sensor
4	Wiring harness - Red, 10"
5	Wiring harness - Black, 10"
6	Wiring harness - White, 6"
7	Wiring harness - White, 8"
8	#10-32 x 1/4" phillips screw
9	#10-32 acorn nut
10	Hinge pin
11	Cord set - hospital grade with terminals
12	Heating Element (120VAC/1000W) w/ washers & nuts
13	Thermostat (65-170 degrees) w/ washers & nuts
14	On/Off switch (DPST w/ lamp)
15	Strain relief
16	Bottom cover
17	Lid
18	Wire rack - small (stainless steel)
19	Rack adapter - small (stainless steel)
20	Thermometer Clamp Assembly
21	Knob with hardware
22	Handle - small

See ACCESSORIES Section for replacement Tropic Pacs and Covers.

3537 (120 VOLTS)



Wiring Diagram

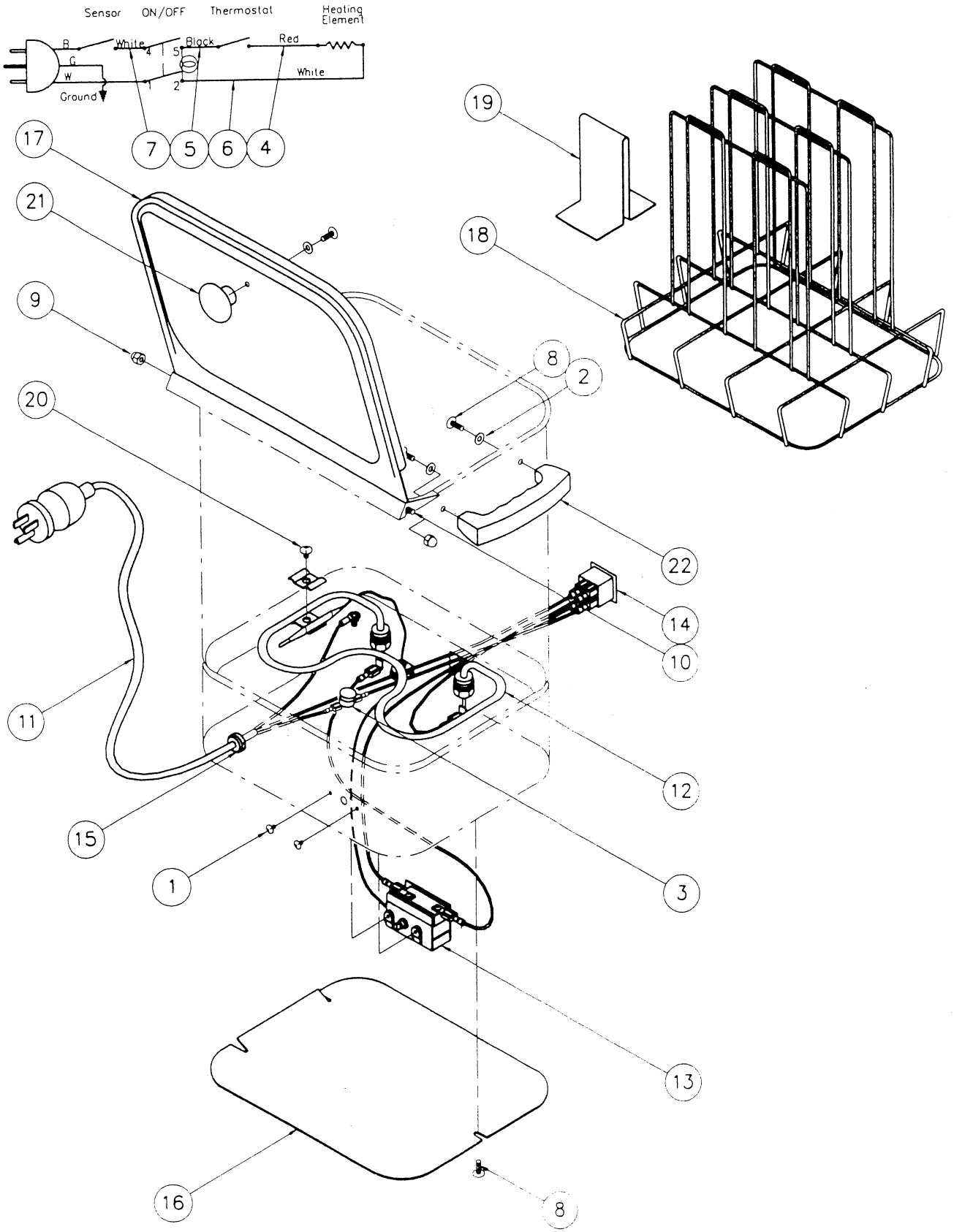


Replacement Parts Model - 3537V (220VAC 50/60Hz)

Item	Description
1	#6-32 x 3/16" phillips screw
2	Fiber washer
3	Thermal Overheating Sensor
4	Wiring harness - Red, 10"
5	Wiring harness - Black, 10"
6	Wiring harness - White, 6"
7	Wiring harness - White, 8"
8	#10-32 x 1/4" phillips screw
9	#10-32 acorn nut
10	Hinge pin
11	Cord set - hospital grade with terminals
12	Heating Element (220VAC/1000W) w/ washers & nuts
13	Thermostat (65-170 degrees) w/ washers & nuts
14	On/Off switch (DPST w/ lamp)
15	Strain relief
16	Bottom cover
17	Lid
18	Wire rack - small (stainless steel)
19	Rack adapter - small (stainless steel)
20	Thermometer Clamp Assembly
21	Knob with hardware
22	Handle - small

See ACCESSORIES Section for replacement Tropic Pacs and Covers.

3537V (220 VOLTS)



ACCESSORIES

Preston Tropic Pacs and Covers

Preston also makes a complete line of Hot Pacs and terry cloth covers. Preston Tropic Pacs are an effective, clean way to apply a minimum of 30 minutes of moist heat. They absorb many times their own volume of water with long-lasting heat retention.

Covers are a two-piece construction; top piece of insulated vinyl, bottom piece of terry cloth. Fastened together with Velcro strips. Prevents moisture release for greater patient comfort and security.

Size	Single	Bulk Pack of
Standard 10 x 12 in. (25 x 30 cm)	PC 3524	PC 3524BK - 12 Pacs
Half-Size 5 x 12 in. (13 x 30 cm)	PC 3526	PC 3526BK - 12 Pacs
Contour Cervical 24 x 6 1/2 in. (61 x 15 cm)	PC 3527	PC 3527BK - 12 Pacs
Oversize 15 x 24 in. (38 x 61 cm)	PC 3528	PC 3528BK - 4 Pacs
Knee/Shoulder 10 x 20 in. (25 x 51 cm)	PC 3529	PC 3529BK - 6 Pacs
Eye-Size 2 1/2 x 3 1/2 in. (5 x 8 cm)	PC 3530	PC 3530BK - 12 Pacs
Combination Hot Pac Cover	PC 3533	Fits PC 3524 Standard
Standard Hydrocover	PC 3534	PC 3534BK - 12 Pacs
Cervical Hydrocover	PC 3535	PC 3535BK - 12 Pacs